



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL WEATHER SERVICE
Silver Spring, Md. 20910

MEMORANDUM FOR: All NWS Regional Headquarters, Regional Maintenance Specialists, Electronic Systems Analysts, and Electronics Technicians [Engineering Handbook (EHB)-13, Series II distribution]

FROM: W/OPS1 - John McNulty Signed by John McNulty

SUBJECT: Transmittal Memorandum for EHB-13 Series II, Issuance 01-09

1. Material Transmitted:

Engineering Handbook No. 13 Series II, Advanced Weather Interactive Processing System (AWIPS), Section 3.3, AWIPS Software Patch Modification Note 19, New "transferNWR" 5.0 Executable. Patch number P433_SEC_A1000104.

2. Summary:

AWIPS Software Patch Modification Note 19 provides instruction on installing a software patch to repair CRS build and hardware upgrades indentified with AWIPS Build 5.0. File this note in EHB-13, Series II, section 3.3.

3. Effect on Other Instructions:

None.



AWIPS SOFTWARE PATCH MODIFICATION NOTE 19 (for Electronics Systems Analysts)
Maintenance, Logistics, & Acquisition Division
W/OST: DM
W/OPS1: FJZ

SUBJECT : New "transferNWR" 5.0 executable

PURPOSE : Repair CRS build and hardware upgrades identified with
AWIPS Build 5.0.

PATCH NUMBER : Patch number: P433_SEC_A1000104

AUTHORIZATION : The authority for this patch modification note is Request for Change
NWS 663.

AFFECTED SITES : All CRS sites must install this patch prior to installing the CRS Main
Processor Replacement.

**VERIFICATION
STATEMENT** : The patch and installation procedures were tested and verified at
National Weather Service Headquarters, Silver Spring, MD (SLVM2),
and at Pleasant Hill, MO (EAX).

**REINSTALLATION
REQUIREMENTS** : None

INSTALLATION TIME: Approximately 5 minutes

SECURITY LEVEL : root

**TECHNICAL
SUPPORT** : For questions or problems regarding these installation instructions or
installing this patch, please contact the NCF at 301-713-9344.

BACKGROUND

The "transferNWR" executable sends CRS formatted messages (Voice Ready Products) from AWIPS to CRS for scheduling and subsequent broadcast on NOAA weather radio. Tests to verify proper message exchange between AWIPS and the new CRS main processors (MP), revealed that due to the delay between the ftp command and the user/password input, messages were not sent to CRS when an operator selected a message from the pending queue of the "NWRBrowser" at an AWIPS workstation. The installation of this patch will eliminate the delay.

<p>NOTE: Sites must install this patch before performing the CRS Main Processor Replacement modification.</p>
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IMPORTANT

Do **NOT** install this patch unless AWIPS has been upgraded to R4.3.3 or Build 5.0

- NOTE:**
1. The “transferNWR” executable (P433_SEC_A1000104) is compatible with AWIPS R4.3.3 and above.
 2. The procedures in this note were written with the assumption that the existing “transferNWR” file residing on all host machines in the “/awips/fxa/bin” directory is identical. If not, call the NCF at 301-713-9344

The patch file (“P433_SEC_A100104.tar.Z”) must be downloaded from the NOAA1 server and unbundled to extract the installation script and the new executable. The installation script will perform the following actions:

- Ⓒ Original executable will be backed up as “/awips/fxa/bin/transferNWR.50” on ds1.
- Ⓒ The patch log (“/awips/PatchLog”) on ds1 will be automatically updated.

A. Patch Installation Procedure

1. At a workstation, open a telnet window and log in as **awipsusr**, and remote log into ds1 as **root** by typing:

```
rlogin ds1 -l root
```

2. Change to the “/workFiles/nwr” directory by typing:

```
cd /data/fxa/workFiles/nwr
```

3. Connect to the NOAA1 ftp server by entering the command:

```
ftp 165.92.25.15
```

4. Once connected, log in as **ftp** user with a password of **4Awips!**.

5. Get the "P433_SEC_A100104.tar.Z" file by typing:

```
binary
hash
cd /pub
get P433_SEC_A100104.tar.Z
bye
```

6. Unbundle the "P433_SEC_A100104.tar.Z" file to obtain two script files ("install_transferNWR50.sh" and "RC.sh") and one executable ("transferNWR"). Type:

```
uncompress P433_SEC_A100104.tar.Z
tar xvf P433_SEC_A100104.tar
```

NOTE: It is not necessary to call the NCF before performing the next step.

7. Install the new "transferNWR" executable on ds1, ws1, ws2, etc.. and update the patch log file ("/awips/PatchLog") by typing: (**Note:** file PatchID.433.104 contains the patch ID and is needed to update the PatchLog file.)

```
./RC.sh -i PatchID.433.104 install_transferNWR50.sh
```

8. Respond to the following questions as indicated:

- a. You can view additional entries in patch log. Would you like to do this? [y/n]
Action: To proceed, please enter: **n** and a carriage return.

- b. Shall we proceed with the update of your files? [y/n]
Action: To proceed, please enter: **y** and a carriage return.

9. After the installation script ("install_transferNWR50.sh") is complete, answer the following questions:

- a. Do you wish to proceed with the patch log update? [y/n]
Action: To proceed, please enter: **y** and a carriage return.

- b. Please enter your name [Example: John Doe]:
Action: enter your name.

- c. Please enter your telephone number (with area code and ext):
Action: enter your phone number.

- d. Do you wish to update patch log with this line? [y/n]

Action: To complete the patch log update, enter: `y` and a carriage return.

10. Push the patched version of “transferNWR” to all devices (i.e. ds2, as1, as2, ws1,ws2, etc.) by typing:

```
rcp -p ds1:/awips/fxa/bin/transferNWR <hostname>:/awips/fxa/bin/transferNWR
```

Where `<hostname>` = ds2, as1, as2, ws1, ws2, etc..

11. Delete the tar file and install script (“install_transferNWR50.sh”) by typing:

```
rm P433_SEC_A100104.tar
rm install_transferNWR50.sh
```

NOTE: Do not delete the “RC.sh” script. It may be required in part B.

12. Exit the root login and close the telnet window by the commands:

```
exit
exit
```

This completes the patch installation procedure.

B. Patch Uninstallation Procedure

To uninstall part or the complete patch and replace it with the original executable(s), perform the following procedure:

1. At a workstation, open a telnet window and log in to ds1 as **root** by typing:

```
rlogin ds1 -l root
```

2. To remove the new version of “transferNWR” from ds1, type:

```
cd /awips/fxa/bin
mv ./transferNWR.50 ./transferNWR
chown fxa:fxalpha ./transferNWR
chmod 555 ./transferNWR
```

3. Push the original version of “transferNWR” to all workstations and servers (i.e. ds2, as1, as2, ws1,ws2, etc.) by typing:

```
rcp -p ds1:/awips/fxa/bin/transferNWR <hostname>:/awips/fxa/bin/transferNWR
```

Where <hostname> = ds2, as1, as2, ws1, ws2, etc..

4. Perform this step only if steps 2 and 3 have been performed. Type:

```
cd /data/fxa/workFiles/nwr  
./RC.sh -r PatchID.433.104
```

5. Answer the following questions as indicated:

- a. Do you wish to continue? [y/n]

Action: To proceed, please enter: **y** and a carriage return.

- b. You can view additional entries in the patch log. Would you like to do this? [y/n]

Action: To proceed, please enter: **n** and a carriage return.

- c. Do you wish to proceed with the patch log update? [y/n]

Action: To proceed, please enter: **y** and a carriage return.

- d. Please enter your name [Example: John Doe]:

Action: enter your name.

- e. Please enter your telephone number (with area code and ext):

Action: enter your phone number.

- f. Do you wish to update patch log with this line? [y/n]

Action: To complete the patch log update, enter: **y** and a carriage return.

6. Exit the root login and close the telnet window by typing:

```
exit  
exit
```

REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record according to instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and appendix I. A sample A-26 form is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Repair CRS build and hardware upgrades by installing AWIPS patch number P433_SEC_A1000104 I.A.W. Software Patch Mod Note 19.
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Installed AWIPS Software Patch Number P433_SEC_A1000104 I.A.W. AWIPS Software Patch Mod Note 19.
17a	Mod. No.	SP19

Signed by John McNulty

John McNulty
Chief, Maintenance, Logistics, and Acquisition Division

WS FORM A-26 (4/94)		WS FORM A-26 (4/94)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE				Document Number G 49978					
General Information		1. Open Date 3 / 08 / 01		Time 0900		2. Initials JMM		3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		4. Close Date 3 / 08 / 01		Time 1000			
5. Description		Repair CRS build and hardware upgrades by installing AWIPS Patch Number P433_SEC_A1000104 I.A.W. AWIPS Software Patch Mod Note 19													
Equipment Information		6. Station ID CTP		7. Equipment Code AWIPS		8. Serial Number 001		9. TM M		10. AT M		11. How Mal. 999			
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="text"/>		b. Logistics Delay <input type="text"/>		Partly Operational		c. All Other <input type="text"/>		d. Logistics Delay <input type="text"/>		Not Operational <input type="text"/>		e. All Other <input type="text"/>	
13. Parts Failure Information														14. Work Load Information	
Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.	Type	Staff Hrs.						
1								a. Routine							
2								b. Non-routine							
3								c. Travel							
4								d. Misc.	1:00						
5								e. Overtime							
Miscellaneous Information		15. Maintenance Comments Installed AWIPS Software Patch Number P433_SEC_A1000104 I.A.W. AWIPS Software Patch Mod Note 19										16. Initials JMM			
17. SPECIAL PURPOSE REPORTING		a. Mod. No. SP19		b. Mod./Act./Deact.Date 3/08/01		c.		d.		e.					
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN		Vendor Part Number (New Part)				Serial Number (Old Part)		Serial Number (New Part)					